Personal System/2 Model 40 SX

You asked for it...

"Build us a better mainstream business computer. Put in more performance. Expand on expandability–and, while you're at it, redesign to save space. Add flexibility to fit lots of different needs. And don't forget affordable price."

That's what businesses everywhere ask for. And that's exactly what they can get with Personal System/2® Model 40 SX. This new general-purpose PS/2® is made to order for businesses both large and small.

And here's proof: PS/2 Model 40 SX packs a 20MHz Intel386™ SX microprocessor and 2MB of expandable memory. It's a powerful yet affordable performer for DOS programs, windowing, even 32-bit application support.

Lift the 40 SX's cover, and you'll find five open expansion slots to fill with your choice of optional function cards. You'll also find 40 or 80 million bytes of fixed disk storage plus space for even more. So, when it's time to boost storage, you can easily add a second fixed disk–or a 5.25-inch diskette drive.

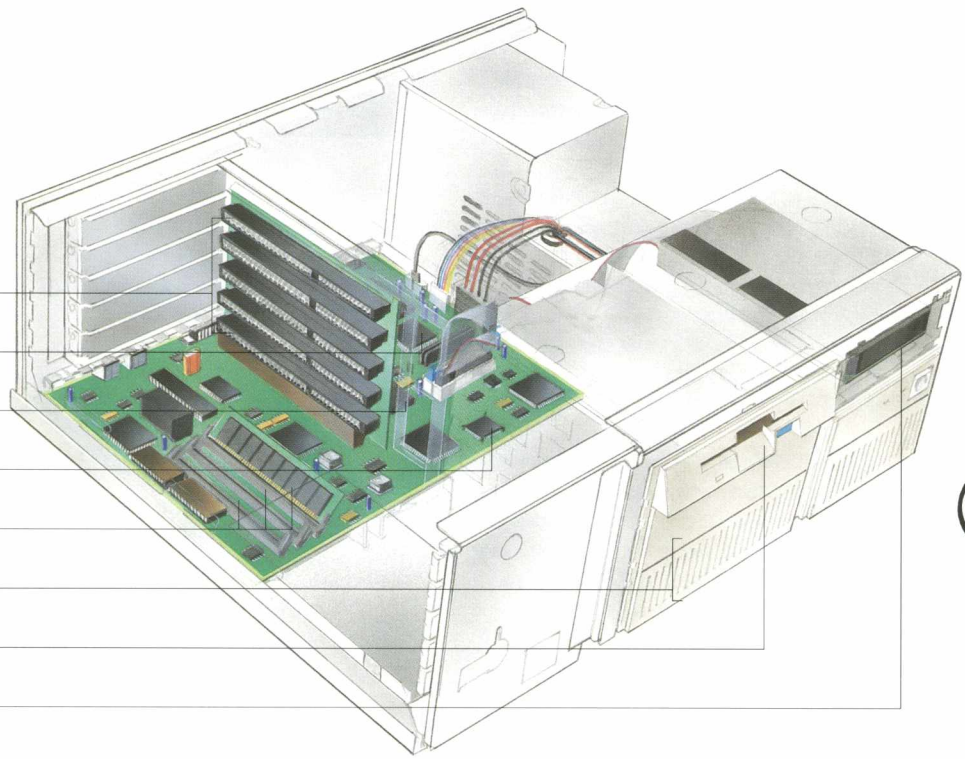
You can sit or stand the 40 SX on your desktop (or on the floor) to save space–it's designed to operate optimally either way. And you can use it with any of three available keyboards suited for different environments and tasks.

Model 40 SX at work

Here are some of the ways you can put Model 40 SX to work for you:

- Process spreadsheets, speed up word processing, manage projects from start to finish
- Do windowing to move easily from one application to another–and to share data between applications, too
- Communicate directly with host computers, and handle your end of the conversation from a 122-key keyboard
- Organize records and maintain mailing lists for a small business

Feature	Benefit
20 MHz i386™ SX microprocessor	• Delivers impressive speed, power and performance • Allows you to support 32-bit, i386-based applications without paying top price
2MB memory, expandable to 16MB on planar	• Offers plenty of speed and workspace for large programs and files • Saves expansion slots for other options
Five available expansion slots	• Accept your selection of a variety of full-size, IBM Personal Computer AT®-compatible option and adapter cards • Give you flexibility to add different functions–plus lots of room to grow
Four storage bays (two available)	• Contain 40MB or 80MB fixed disk, standard; enable addition of a second 40MB or 80MB disk (043 and 045 models) • Provide room to add a second diskette drive–either 3.5-inch or 5.25-inch–or a high-capacity 2.88MB drive, as you choose • Make it possible to create a "mixed-media" environment
Integrated diskette controller	• Provides built-in support for an internal 5.25-inch diskette drive, saving an expansion slot for other use • Lets you make the most of the latest technology by supporting an optional 3.5-inch 2.88MB diskette drive
Selectable boot	• Allows you to boot from any diskette or disk drive, so using different operating systems is simple
Choice of keyboards	• For the first time, offers a selection: the familiar 101-key PS/2 Enhanced Keyboard, an 84-key Space Saving Keyboard, or a 122-key keyboard for host-connected applications • Means you can fit the keyboard to the task
16-bit VGA graphics	• Make business graphics, text and digitized images look sharp and clear
Vertical stand	• Allows you to operate the 40 SX in a vertical position • Frees up desk space



intel inside

IBM Host-Connected Keyboard (122 keys), available in one of eleven languages

PS/2 Enhanced Keyboard (101 keys), available in one of eleven languages

Space Saving Keyboard (84 keys), available in one of three languages (U.S. English, Canadian French and Spanish)

Wide range of options[1]

	Part no.
Storage devices	
• 3.5" 1.44MB Slim High Diskette Drive	6451130
• 3.5" 2.88MB Slim High Diskette Drive	6451106
• 5.25" 1.2MB Slim High Internal Diskette Drive	6451066
• 5.25" 360KB External Diskette Drive	4869001[1]
• 40MB Fixed Disk Drive I	6451073
• 80MB Fixed Disk Drive I	6451074
• 120MB Internal Tape Backup Unit	30F5279
Scanners	
• 3118 Scanner	3118010/3118020
Connectivity/communications	
• Token-Ring Network Adapter II	25F9858
• Token-Ring Network 16/4 Adapter	25F7367
• PC Network Broadband Adapter II	1501220
• PC Network Baseband Adapter	1501221
• Serial/Parallel Adapter	6450215
• 3278/79 Emulator Adapter	53F6425
• SDLC Adapter	1501205
• Enhanced 5250 Emulation Adapter Kit	30F5383
• Display Station Emulation Adapter	92X0813
• Realtime Interface Co-Processor	00F5527
• Realtime Interface Co-Processor Multiport Model 2 (1MB)	33F8791
• Realtime Interface Co-Processor (128KB)	85X2710
• Realtime Interface Co-Processor (512KB)	85X2706
Graphics and multimedia	
• M-Audio Capture and Playback Adapter	87F9908
Other features	
• PS/2 Mouse	6450350
• SpeechViewer™ Kit	6450610
• SpeechViewer Hardware	6450611
• PhoneCommunicator Convenience Kit	6450618
• Screen Reader™	6450616

Memory matrix table

Memory on system board	All models
Standard memory	2MB
Maximum memory supported	16MB
System board memory expansion kits	1MB: 85ns (6450603) 2MB: 85ns (6450604) 2MB: 80ns (6450608) 4MB: 80ns (87F9977) 8MB: 80ns (6450129)
Number of memory kits that can be added on system board (available sockets)	2
Memory configurations possible on system board	Various configurations from 2MB to 16MB

Why PS/2?

Here are some of the reasons why PS/2 stands out as the best solution for your business needs.

Technological leadership through streamlined, integrated construction and space-saving design.

Compatibility to protect your investment since the PS/2s you have today work with existing products and programs and with those you'll need tomorrow.

Service and support that provide you with everything from fast parts delivery to onsite services to 24-hour phone support anywhere in the country–all at a competitive price.

Business Partners who enhance PS/2 capabilities by helping customers choose, customize and configure hardware and software to meet a range of needs.

Quality and reliability that ensure PS/2s are built to perform smoothly and dependably year after year.

IBM Personal System/2 Model 40 SX at a glance

Machine numbers	8540-040	8540-043	8540-045
Microprocessor			
Standard	80386 SX	80386 SX	80386 SX
Clock speed	20 MHz	20 MHz	20 MHz
Wait states	0-2	0-2	0-2
Other functions	Socket for i387™ SX math coprocessor		
Bus architecture	AT®-type	AT-type	AT-type
Data path	16-bit	16-bit	16-bit
Memory (RAM)			
Standard	2MB (85ns)	2MB (85ns)	2MB (85ns)
Maximum on system board	16MB	16MB	16MB
System maximum	16MB	16MB	16MB
Integrated functions	16-bit Video Graphics Array (VGA) with display port, serial port, parallel port, keyboard port, pointing device port, diskette controller		
Available expansion slots	Five full-size 8/16-bit		
Diskette storage (internal)			
Standard (3.5-inch)	1.44MB	1.44MB	1.44MB
Optional	1.44MB or 2.88MB[2] (3.5-inch) or 1.2MB (5.25-inch)		
Diskette storage (external)			
Optional (5.25-inch)[3]	360KB	360KB	360KB
Fixed disk storage (internal)			
Standard	–	40MB (17ms)	80MB (17ms)
Optional	40MB or 80MB (17ms)	40MB or 80MB	40MB or 80MB
Display modes	VGA (includes all EGA, CGA and MCGA modes)		
Text	360 or 720 x 400; 9 x 16 pel character matrix; 80 columns x 25 rows; up to 16 colors		
APA modes	320 x 200 x 256 colors or 64 gray shades; 640 x 480 x 16 colors or 16 gray shades; palette of 256,000 colors or 64 gray shades		
Supported displays	IBM Personal System/2 Color Displays 8512, 8513, 8514, 8515 and 8516; IBM Personal System/2 Monochrome Displays 8504, 8506,[4] 8507 and 8508[4]		
Supported printers/ plotters	IBM Proprinter® family, IBM LaserPrinter family, IBM ExecJet™ Printer, IBM Quietwriter® family, IBM Quickwriter,® IBM Page Printer 3812/3816, IBM PS/1™ Printer, IBM 618X and 737X Color Plotters		
Choice of keyboards[5]	PS/2 Enhanced Keyboard (1393990): 101 keys, including 12 function keys, 3 lighted mode indicators; Space Saving Keyboard (1396050): 84 keys, including 12 function keys; IBM Host-Connected Keyboard (1396400): 122 keys;[6] a 3-meter keyboard cable is standard with all keyboards		
Power supply	197-watt worldwide, manual switch setting		
Operating systems	DOS 3.3 or higher,[2] IBM Operating System/2® Standard or Extended Edition 1.3 (at refresh level 1.30.1)		
Size	Approx. 6.7"H x 17.3"W x 15.5"D (169mm x 440mm x 394mm)		
	26.3 lbs. (11.9 kg)	27.8 lbs. (12.6 kg)	27.8 lbs. (12.6 kg)
Warranty	One-year limited warranty		

® IBM, Personal System/2, PS/2, Personal Computer AT, AT, Proprinter, Quietwriter, Quickwriter and Operating System/2 are registered trademarks of International Business Machines Corporation. PageMaker is a registered trademark of Aldus Corporation.

™SpeechViewer, Screen Reader, ExecJet and PS/1 are trademarks of International Business Machines Corporation. Intel386, i386 and i387 are trademarks of Intel Corporation.

[1] The options listed may require other features for the desired function or for installation.

[2] DOS 5.0 is required to support the 2.88MB diskette drive and the media-sense features of the 1.44MB and 2.88MB drives.

[3] Requires 5.25" Diskette Adapter Card.

[4] Supported by the PS/2 Image Adapter/A.

[5] A keyboard must be selected; all keyboards are available in a variety of languages.

[6] Keys and features on this keyboard that are not on the 101-key keyboard are supported by Personal Communications/3270 V.2.0 and 3270 Emulation Entry Level V.2.0 using DOS 5.0.

This document was created on an IBM Personal System/2 Model 70 386 with Aldus PageMaker®4.0 desktop publishing software.

© International Business Machines Corporation 1991

IBM United States
Department ZW1
1133 Westchester Avenue
White Plains, NY 10604

Printed in the United States of America
6-91
All Rights Reserved

References in this publication to IBM products or services do not imply that IBM intends to make them available outside the United States.

G221-3133-00